



14230 U.S. PTO

PTO/SB/05 (06-03)

Approved for use through 07/31/2003. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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## UTILITY

PATENT APPLICATION  
TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 4240-103

First Inventor LEE, Yang Sup

Title COMPOSITION FOR PROTECTING PROTEINS DEGRADATION COMPRISING....

Express Mail Label No. EV160595239US

U.S. PTO  
107791059

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

22856

ADDRESS TO: Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-14501.  Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)7.  CD-ROM or CD-R in duplicate, large table or  
Computer Program (Appendix)2.  Applicant claims small entity status.  
See 37 CFR 1.27.8. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)3.  Specification [Total Pages 29]a.  Computer Readable Form (CRF)

(preferred arrangement set forth below)

- Descriptive title of the invention
- Cross Reference to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to sequence listing, a table, or a computer program listing appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

b. Specification Sequence Listing on:

- i.  CD-ROM or CD-R (2 copies); or
- ii.  paper

c.  Statements verifying identity of above copies4.  Drawing(s) (35 U.S.C. 113) [Total Sheets 15]

## ACCOMPANYING APPLICATION PARTS

5. Oath or Declaration [Total Sheets 2]

9.  Assignment Papers (cover sheet & document(s))a.  Executed (original or copy)10.  37 CFR 3.73(b) Statement  Power of Attorney  
(when there is an assignee)b.  Copy from a prior application (37 CFR 1.63 (d))  
(for continuation/divisional with Box 18 completed)11.  English Translation Document (if applicable)i.  **DELETION OF INVENTOR(S)**12.  Information Disclosure Statement (IDS)/PTO-1449  Copies of IDS CitationsSigned statement attached deleting inventor(s)  
name in the prior application, see 37 CFR  
1.63(d)(2) and 1.33(b).13.  Preliminary Amendment14.  Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)15.  Certified Copy of Priority Document(s)  
(if foreign priority is claimed)16.  Nonpublication Request under 35 U.S.C. 122  
(b)(2)(B)(i). Applicant must attach form PTO/SB/35  
or its equivalent.17.  Other: Certified Copy of Priority Korean Patent  
Application

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

 Continuation Divisional Continuation-in-part (CIP)

of prior application No. \_\_\_\_\_

Art Unit: \_\_\_\_\_

Prior application information: Examiner \_\_\_\_\_ For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 19. CORRESPONDENCE ADDRESS

 Customer Number:

23448

OR

 Correspondence address below

Name Intellectual Property Technology Law

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

Zip Code \_\_\_\_\_

Country USA

Telephone (919) 419-9350

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Name (Print/type) Steven J. Hultquist

Registration No. (Attorney/Agent) 28021

Signature

Date March 2, 2004

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

1430  
030204  
U.S. PTO

PTO/SB/17 (10-03)

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# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

 Applicant Claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 982.00)

## Complete if Known

Application Number	
Filing Date	March 2, 2004
First Named Inventor	LEE, Yang Sup
Examiner Name	Unassigned
Art Unit	Unassigned
Attorney Docket No.	4240-103

## METHOD OF PAYMENT (check all that apply)

 Check  Credit card  Money Order  Other  None Deposit Account

Deposit

Account

Number

083284

Deposit

Account

Name

Intellectual Property Technology Law

The Director is authorized to: (check all that apply)

 Charge fee(s) indicated below  Credit any overpayments Charge any additional fee(s) or any underpayment of fee(s) Charge fee(s) indicated below, except for the filing fee

to the above-identified deposit account.

## FEE CALCULATION (continued)

## 3. ADDITIONAL FEES

Large Entity	Small Entity	Fee Description	Fee Paid		
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	
Other fee (specify) _____					
*Reduced by Basic Filing Fee Paid					
SUBTOTAL (3) (\$ 40.00)					

\*\* or number previously paid, if greater; For Reissues, see above

SUBMITTED BY		Complete (if applicable)		
Name (Print/Type)	Steven J. Hultquist 	Registration No. (Attorney/Agent)	28021	Telephone (919) 419-9350
Signature				Date March 2, 2004

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re United States Patent Application of:	)		
Applicant:	LEE, Sang Yup, et al.	)	Docket No.: 4240-103
Application No.:	Unassigned	)	Examiner: Unassigned
Date Filed:	March 2, 2004	)	Group Art Unit: Unassigned
Title:	COMPOSITION FOR PROTECTING PROTEINS DEGRADATION COMPRISING SMALL HEAT SHOCK PROTEINS (sHSPs) AND METHOD OF TWO- DIMENSIONAL GEL ELECTROPHORESIS USING THE sHSPs	)	Customer No.:  <b>23448</b>
Cross-Reference to Related Application:	This application claims priority under 35 USC § 119 of Korean Patent Application No. 10-2003- 0062756 filed September 8, 2003	)	

EXPRESS MAIL CERTIFICATE

I hereby certify that I am mailing the attached documents to the Commissioner for Patents on the date specified, in an envelope addressed to Mail Stop Patent Application, Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450 and Express Mailed under the provisions of 37 CFR 1.10.



Candace White

March 2, 2004

Date

EV160595239US

Express Mail Label Number

SUBMISSION OF NEW U.S. PATENT APPLICATION

Mail Stop Patent Application  
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450